

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A radioactive magnetic ~~fluids~~ fluid comprising: magnetic nanoparticles of $\text{Cu}_x\text{Fe}_{1-x}\text{OFe}_2\text{O}_3$; and surfactants coated onto the surface of the magnetic nanoparticles, wherein x value is between 0.1 and 0.4 and a component of copper in the magnetic nanoparticles of $\text{Cu}_x\text{Fe}_{1-x}\text{OFe}_2\text{O}_3$ is a [[the]] radioactive copper is a component part of the magnetic nanoparticles.

2. (Currently Amended) The radioactive magnetic fluids according to claim 1, wherein the magnetic nanoparticles ~~is obtained with synthesis of $\text{Cu}_x\text{Fe}_{1-x}\text{OFe}_2\text{O}_3$~~ are obtained by chemical reaction of Cu^{2+} solution with the solutions coprecipitating components of Fe^{2+} and Fe^{3+} with a component of radioactive Cu^{2+} under presence of a precipitator.

3. (Currently Amended) The radioactive magnetic fluids according to claim [[2]] 1, wherein the surfactants comprise [[the]] a first surfactant coated onto the surface of the magnetic nanoparticles, the first surfactant being decanoic acid, and ~~the~~ a second surfactant coated onto the first-coated magnetic nanoparticles, the second surfactant being nonanoic acid.

4.-5. (Canceled)

6. (Withdrawn - Currently Amended) A process for preparing the radioactive magnetic fluids of claim 1, which comprises:

1) preparing the magnetic nanoparticles of $\text{Cu}_x\text{Fe}_{1-x}\text{OFe}_2\text{O}_3$ by coprecipitating the

P24028.A04

components of Fe^{2+} and Fe^{3+} with ~~[[a]]~~ the component of radioactive Cu^{2+} under the presence of a precipitator;

2) first coating the magnetic nanoparticles with decanoic acid; and

3) second coating the first-coated magnetic nanoparticles with nonanoic acid.

7. (Canceled)

8. (Withdrawn) The process according to claim 6, wherein the precipitator is sodium hydroxide.

9. (Withdrawn) The process according to claim 6, wherein the mole ratio of $(\text{Cu}^{2+} + \text{Fe}^{2+})$ to Fe^{3+} is within range of (1.1~1.4):2.

10. (Currently Amended) ~~Therapeutic~~ A therapeutic drug for cancer containing the radioactive magnetic fluids ~~represented by the~~ fluid according to claim 1.

11. (Currently Amended) ~~Diagnostic~~ A diagnostic reagent for cancer containing the radioactive magnetic fluids ~~represented by the~~ fluid according to claim 1.